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<http://www.geo-energy.org/updates.aspx>



National News

Vice President Biden Calls for Renewable Project Grants Extension, Congress Continues Energy Discussions

Vice President Joe Biden has added his voice to support for an extension of the Treasury Grant program for Renewable Energy projects, a grant program responsible for the creation of over 12,000 new jobs and nearly 4,000 renewable energy projects in the last year.

"We have to build new industries that build things here in the United States of America," Biden said. "And so if you build a wind turbine or solar panels or advanced batteries, and manufacture them right here in the United States, you get a 30 percent tax credit. It baffles me why we wouldn't want to offer tax credits for people to manufacture things here in the United States of America."

Congress is meeting this week largely to determine the agenda to follow once they return from Thanksgiving next week. This week, Senate Majority Leader Harry Reid (D-Nev.) decided to delay a procedural motion on a natural gas and vehicles bill in favor of continuing discussion with Republicans. The bill may be one of the only energy-related measures that could move during the lame-duck session. Regan Lachapelle, Reid's spokeswoman, said the decision will give the bill more likelihood of passing.

Republicans could add language delaying the EPA from acting to regulate carbon emitters to a short-term spending bill, which President Obama could not veto because doing so would shut down the government. Other energy measures to be discussed are a renewable electricity mandate, an oil-spill response bill and an extension of expiring tax credits.

See <http://www.energyboom.com/policy/us-vice-president-joe-biden-calls-congress-extend-treasury-grants-renewable-projects>

<http://in.reuters.com/article/idINIndia-52878920101112>

<http://washingtonindependent.com/103617/reid-will-delay-procedural-vote-on-electric-natural-gas-vehicles-bill>

<http://www.politico.com/news/stories/1110/45304.html#ixzz15eeFGF3F>

EPA Introduces Carbon Emissions Rules and Guidance, FERC Promotes Energy Measures

The EPA is set to regulate carbon emitters if lawmakers failed to pass a climate bill. Petroleum and natural gas facilities that emit more than 25,000 metric tons of carbon dioxide equivalent a year will be required to monitor and report all greenhouse gas emissions, with data collection beginning in January 2011 and first annual reports due in March 2012. The companies are not required to cut GHG emissions, and the EPA has said compliance does not require costly technology. Most other industries were required to begin tracking GHG emissions in January 2010 under the Greenhouse Gas Reporting Program, launched in October 2009.

On November 10, EPA also issued guidance to states. Recommendations include using best available control technology (BACT) to assess all available emission reduction options. In January 2011, large GHG emitters will be required to obtain a permit and use BACT in the construction or modification of facilities.

Meanwhile, Federal Energy Regulatory Commission has issued two notices expected to be settled next year. One proposes to pay consumers who conserve electricity equally with companies that generate it. The second promotes transmission projects that will serve wind and solar power.

See <http://www.nytimes.com/cwire/2010/11/12/12climatewire-ferc-moves-ahead-with-campaign-to-promote-en-22696.html?partner=rss&emc=rss>

<http://yosemite.epa.gov/opa/admpress.nsf/d0cf6618525a9efb85257359003fb69d/8518e9bdc820460a852577d600591852!OpenDocument>

<http://www.reuters.com/article/idUSTRE6A85IL20101109>

Company News



Ormat Technologies: Geophysical Surveys Underway in Alaska

Ormat Nevada picked up 15 tracts in Alaska in September 2008, and began conducting geophysical surveys this past summer to measure the geothermal potential around Mount Spurr. In September, the company got two drilling permits from the Alaska Oil and Gas Conservation Commission. Weather could delay some drilling until next year. Ormat has not said whether they will sanction a project, but would only need about 40 miles of transmission lines to add significant geothermal power to the South-central power grid.

See <http://www.petroleumnews.com/pntruncate/309236061.shtml>

Renewable Energy and Climate Change



Geothermal the Most Economic of the Green Energies

An interview on theenergyreport.com with Casey Energy Opportunities Senior Editor Marin Katusa includes perspectives on the direction of geothermal energy. Katusa names the geothermal sector as an area that has been overlooked by investors in the past two years. He says: "That's beautiful and fine by us because now these companies have developed projects and explored at a much lower cost of capital for present investors. But the investors got bored and sold the stocks. Now these companies are 50% cheaper than they were 16–18 months ago, but they have so much more value today than they did 18 months ago."

Katusa describes positive aspects of the geothermal sector, calling it the most economic of the green energies, and says that consolidation will have to happen to take it to the next level. "Whether it's Ram Power Corp. (TSX:RPG) taking over Nevada Geothermal Power (TSX.V:NGP), Nevada Geothermal taking over Ram, Nevada taking over Magma Energy Corp. (TSX:MXE), Magma taking over Nevada or a merger between Ram and Magma—there's going to be consolidation. But the question of who will be the consolidator is still up in the air," Katusa says.

Regarding good buys in the sector: "Right now, we have three buy recommendations: Nevada Geothermal, Ram Power and Magma," Katusa says.

See <http://www.theenergyreport.com/pub/na/7782>

Tighter Cap Suggested for RGGI Emission Targets

The 10-state Regional Greenhouse Gas Initiative (RGGI), the nation's only existing government-mandated carbon cap-and-trade program, now finds they could meet and beat the emissions reductions targets set under the program just by doing nothing, due to a series of unanticipated events that has already pushed the region's carbon footprint to 33% lower than what they had projected. RGGI is now considering advice to cut the level of its emissions cap by a fourth and to reform the system of allowances they auction to electricity generators.

The projections were intercepted by an unusually warm year in 2005 causing energy consumption in the Northeast rise to record levels. Subsequently, the rise of cheap natural gas in the power grid, higher oil prices, energy efficiency programs, a recession and a return to more normal summer weather patterns all contributed to cutting CO₂ output 33% below levels predicted.

A full 24 percent of the decline in emissions can be chalked up to the weather, while economic woes only contributed about 4.4% to the decline in CO₂ output. The New York State Energy Research and Development Authority, who is advising RGGI, said the weather could swing in the other direction and reverse gains made to lower carbon output during recent years, but that the fuel switching, coal power replacement and energy efficiency gains are likely permanent.

See <http://www.eenews.net/climatewire/2010/11/15/4/>

State News

California and Japan: Geothermal Energy a Hot Topic

An article on californiawatch.org highlights similarities between geothermal energy in California and Japan. Both have used it for a long time, and in both, its appeal to policymakers and investors is increasing. They also have similar obstacles: cost, aesthetics, and public relations concerns. New methods of geothermal extraction and injecting the water back into the earth are reducing some of the obstacles.

See <http://californiawatch.org/watchblog/japan-facing-similar-challenges-embraces-geothermal-energy-6658>

Massachusetts and Connecticut: Geologists to Study Hot Rock Samples

The DOE has awarded a three-year, \$441,000 grant to a research team studying geothermal potential in New England. University of Massachusetts volcanology professor Mike Rhodes, Massachusetts state geologist Steve Mabee and Connecticut state geologist Margaret Thomas will collect 450 rock samples to be analyzed over three years.

See

http://news.bostonherald.com/news/regional/view/20101113geologists_to_study_new_england_geothermal_energy/srvc=home&position=recent

Oregon: Geothermal Drilling to Begin at Crump Geyser

Nevada Geothermal Power Inc. and Ormat Nevada Inc. are on target to begin drilling at the Crump Geyser geothermal project in southern Oregon later this month. The \$120 million project is expected to generate 30 MW of power and to be in service by later 2013.

See

http://www.bendbulletin.com/apps/pbcs.dll/article?AID=/20101118/NEWS0107/11180346/1001/NEWS01&nav_category=NEWS01

International News

Clean Technology Fund Supports Sun, Wind and Geothermal in Twenty Developing Countries

Twenty developing countries are investing in large-scale renewables, particularly solar, wind and geothermal services. The Clean Technology Fund is expected to support a portfolio of projects covering renewables, energy efficiency, and clean transport. An estimated \$8.4 is expected for every CTF dollar invested, with a total financial impact of up to \$40 billion.

The countries involved include fourteen middle income countries — Algeria, Egypt, Indonesia, Jordan, Kazakhstan, Mexico, Morocco, Philippines, South Africa, Thailand, Tunisia, Turkey, Ukraine, and Vietnam. Six low income countries also intend to invest in renewable energy – Ethiopia, Honduras, Kenya, Maldives, Mali, and Nepal. A CTF operational report detailed a first round of renewables projects for a total of \$2.4 billion to implement these plans, expected to finance around 4,255 MW, with a potential to scale-up around 39,200 megawatts.

See www.climateinvestmentfunds.org

<http://www.advertisertalk.com/twenty-developing-countries-to-use-sun-wind-and-geothermal-to-radically-reshape-citizens%E2%80%99-energy-access-17273.zhtml>

Australia: Industry Representative Asks for Government Support, Geothermal Projects Take Next Steps

In Adelaide, South Australia, a national geothermal conference explored issues preventing geothermal exploration from taking off in comparison to other parts of the world. Susan Jeanes, Chief Executive of the Australian Geothermal Energy Association asked for increased government investment: "Finding the resource; that's the main risk in our industry. So we argue that the government should be contributing to the risk of finding the

resource. And they do that in the clean coal sector, they've got a \$1.5 billion program for solar, but the geothermal industry has had all the money it's going to get, which is about \$230 million from the Commonwealth."

In Victoria, Alcoa, the world's largest integrated bauxite mining, alumina refining and aluminum smelting operation has signed a memorandum of understanding with Greenerth Energy for up to 12 megawatts of power. The next step is locating a site, and following plans, Alcoa could be using geothermal energy by 2014. "Geothermal energy is being increasingly recognized as having the potential to deliver zero emissions, reliable and, importantly, base-load renewable energy generation," Greenerth managing director Mark Miller said.

Also in Victoria, Hot Dry Rocks will use a \$217,000 grant from the state government to construct a pilot plant close to a large user of electricity by 2012. "Geothermal energy is an important form of renewable energy and the Latrobe Valley, it appears, happens to have a very good resource and the reason for that is the coal layers have actually acted as a blanket to keep this geothermal heat energy at higher values than it is in other parts of the state," Victorian Energy and Resources Minister Peter Batchelor said last week.

In Queensland, drilling has begun at the first geothermal energy testing site in the state. The site at Gundiah is one of 12 identified by state government for testing. "[Geothermal energy] has the potential to produce more baseload energy than any other renewable energy source," said Energy Minister Stephen Robertson.

See <http://www.abc.net.au/rural/news/content/201011/s3069929.htm>

<http://www.smh.com.au/business/geothermal-power-pact-for-alcoa-greenerth-20101115-17uj4.html>

<http://www.latrobevalleyexpress.com.au/news/local/news/general/energy-research-boost/1997180.aspx>

<http://www.abc.net.au/news/stories/2010/11/18/3069585.htm>

El Salvador: Dr. DiPippo Honored for Geothermal Energy Contributions

Press Release — Dr. Ronald DiPippo was presented with the Victor De Sola Award on November 5 by the El Salvadoran company, LaGeo, at its annual Ausoles de Acero Awards ceremony at the Hotel Presidente in San Salvador. DiPippo's award was given for his "distinguished and continuous contributions to the development of geothermal energy in El Salvador." His work in the country dates from 1978 and includes serving as a member and chairman of the El Salvador Geothermal Advisory Panel from 1992-1999. DiPippo is Professor Emeritus of Mechanical Engineering, University of Massachusetts Dartmouth, and a consultant in renewable energy. Ausoles de Acero Awards were also presented at the ceremony to eight employees and contractors best exemplifying each of LaGeo's corporate values. Created in 1999 as part of the decentralization process of the Salvadoran energy sector, LaGeo is a mixed capital company dedicated to geothermal power generation. It currently has two geothermal fields with power plants in operation, Ahuachapán and Berlín, which generate about 25% of the country's electricity needs.

Iceland and Iran: President Grimsson Reiterates Relations and Cooperation

President Olafur Grimsson in a meeting with Iran's accredited Ambassador to Reykjavik Seyed Hossein Rezvani announced Iceland's readiness to share know-how and called for Tehran's cooperation in fishery and geothermal fields. The two sides underlined further development, and Rezvani reiterated Iran's readiness to expand relations in politics, economics and culture.

See <http://english.farsnews.com/newstext.php?nn=8908230840>

New Zealand: Scientists to Study Geothermal Venting at Lake Rotomahana

For the first time, a lake bed in New Zealand will be mapped by autonomous underwater vehicles (AUVs). The project at Lake Rotomahana will begin in late January. Studies of the lake's chemistry have shown geothermal fluids are pouring in from below, and the project will analyze the number, locations, and intensity of the venting. Other measurements will include temperature, pH, conductivity, depth, and optical clarity of the water.

Project leader, Cornel de Ronde of GNS Science, said: "Our aim is to determine what happened to the Pink and White Terraces hydrothermal system when it was drowned in the enlarged Lake Rotomahana soon after the 1886 eruption," Dr de Ronde said. "We also want to know what links there are between the drowned geothermal systems of Lake Rotomahana and the adjacent geothermal system at Waimangu. This is a rare opportunity to document the death of a land-based geothermal system and its rebirth at the bottom of a lake."

See <http://www.scoop.co.nz/stories/SC1011/S00043/scientists-to-probe-lake-rotomahana.htm>

Philippines: Electric Cooperative Plugs Green Core Geothermal

The Negros Oriental Electric Cooperative 2's Ephraim Taclob is asking the four other power firms in Negros Island to sign with the Green Core Geothermal Inc. for reliable electricity for consumers. Noreco 2 and GCGI (of Energy Development Corporation) will sign a 10-year agreement on a 25-MW power supply. The four other Negros electric cooperatives are still negotiating over the selling rate.

See <http://www.visayadailystar.com/2010/November/15/negor4.htm>

Geothermal Heat Pumps and Direct Use



In Pennsylvania, Marywood University Uses Mine Water for Energy

Marywood University is now using geothermal mine water to heat and cool its School of Architecture, which has a focus on sustainable design. Marywood's example could be a model for the region. "I think once people see it working, it will happen more and more," Mr. Korb said. "It certainly is applicable in other places," said Michael Korb, manager of the Wilkes-Barre office of the state Bureau of Abandoned Mine Reclamation. The system also serves as a learning tool for students.

About half of the system's \$500,000 price was paid through a federal stimulus grant from the Pennsylvania Energy Development Authority, and the rest was financed through a low-interest state loan. The system will be expanded to the second phase of the architecture building and could be expanded to other buildings on the campus.

See <http://thetimes-tribune.com/news/marywood-s-use-of-mine-water-for-energy-could-be-model-for-area-1.1063895>

In Canada, Yellowknife Looking for Geothermal Heating System Proposals

The city of Yellowknife is looking for proposals from private companies for a heating system that would use geothermal energy from the defunct Con Mind shafts. The plan is to heat 39 downtown buildings by 2016 and to save over 7 million liters of heating fuel a year.

See <http://hgyellowknife.com/news/10585/City%20proceeds%20with%20geothermal%20energy%20plan/>

Geothermal Heat Pump Project Featured At Governors' Global Climate Summit 3

Press Release — Alexandria, VA, 15 November 2010: Bob Lawrence & Associates, Inc. (BL&A) in partnership with the California Geothermal Energy Collaborative (CGEC) presented a poster on geothermal heat pumps on 14 November 2010 as part of the Governors' Global Climate Summit 3 at the University of California, Davis.

Dr. William E. Glassley, Executive Director of the CGEC, presented the poster which graphically described how, using the Earth's geothermal heat, we can heat and cool buildings while reducing energy use and greenhouse gas emissions. The poster session took place during a pre-summit event.

The poster describes the GHPsRUS Project, a three-year effort to measure the potential economic, environmental, and social benefits of nationwide geothermal heat pump (GHP) deployment. "GHPsRUS" is short for "Geothermal heat pumps are U.S."

The GHPsRUS Project is surveying the nation's 30 largest metropolitan regions to develop a cost/benefit analysis for GHP deployment. This evaluation will quantify, by region, the reduction in greenhouse gas emissions and energy use that could be achieved for various levels of market penetration by GHP systems.

The Governors' Global Climate Summit 3 takes place at UC Davis on 15-16 November 2010. The Summit is co-hosted by Governor Arnold Schwarzenegger and other subnational leaders in partnership with the United Nations Development and Environment Programmes, and co-sponsored by UC Davis.

The GHPsRUS Project is supported by the U.S. Department of Energy through the American Recovery and Reinvestment Act of 2009.



<http://www.geo-energy.org/updates.aspx>

Notices

New This Week



DOE Seeks Peer Review Comments on Geothermal Life-Cycle Analysis

Life-Cycle Analysis Results of Geothermal Systems in Comparison to Other Power Systems
Draft for Peer Review

The Geothermal Technologies Program is soliciting peer review comments on the draft report Life-Cycle Analysis Results of Geothermal Systems in Comparison to Other Power Systems from Argonne National Laboratory. ANL concludes that "despite the large amount of steel and concrete required per MW power capacity, enhanced geothermal systems are one of the lower GHG emitters of the renewable systems studied per unit of lifetime kWh output. EGS GHG emissions can be reduced even further as well depth decreases."

See <http://www1.eere.energy.gov/geothermal/plans/comments.cfm?doc=lifecycle>

DOE Seeks Peer Review Comments on Geothermal Water Use

Water Use in the Development and Operation of Geothermal Power Plants
Draft for Peer Review

The Geothermal Technologies Program is soliciting peer review comments on the draft report Water Use in the Development and Operation of Geothermal Power Plants from Argonne National Laboratory. ANL concludes that "Overall, geothermal technologies appear to consume less water on average over the lifetime energy output than other power generation technologies."

See <http://www1.eere.energy.gov/geothermal/plans/comments.cfm?doc=wateruse>

Report on Assessing America's Renewable Energy Future Available for Download

The Report on Assessing America's Renewable Energy Future is available for download: www.rnrf.org. In light of recommendations from the scientific community for immediate reductions in greenhouse gas emissions, in December 2009 Directors of the Renewable Natural Resources Foundation (RNRF) brought together a select group of professionals from RNRF member organizations and leaders from government, industry, academia, and nongovernmental organizations. This report summarizes key facts and concepts from those panel presentations and discussions.

Of geothermal energy, the report says: "The geothermal industry has dozens of new projects in line for development. Construction of these new facilities will double geothermal capacity within the coming decade. Geothermal energy also is expanding beyond traditional geyser facilities to capitalize on a variety of potential new ways to extract heat energy from the earth. The industry faces financing issues, and research and technological needs, as it further develops enhanced geothermal systems and explores co-production with oil and gas."

The section on geothermal energy continues with information on presentations from Roy Mink, water and geothermal energy consultant, board member of U.S. Geothermal and Nevada Power; Brenda S. Pierce, program coordinator, Energy Resources Program, U.S. Geological Survey (USGS); and Karl Gawell, executive director, Geothermal Energy Association.

Current Notices

BLM Releasing CO Study of Geothermal Energy Impact – Comments Open (December 4)

The U.S. Bureau of Land Management will release its study of the environmental impact of geothermal energy development on two blocks of land in southeastern Gunnison County in western Colorado. The study to be released Thursday examines the effects of tapping into geothermal energy on 4,586 acres of BLM land and 400 acres of private land, along with 3,765 acres of forest land. Both blocks are near Tomichi Dome and the Waunita Hot Springs. The BLM will accept public comment until Dec. 4.

The BLM is offering the first geothermal lease on federal land in Colorado Nov. 10. The proposed lease is on 799 acres near Mount Princeton Hot Spring Resort in Chaffee (CHAY'-fee) County. Geothermal plants tap into hot water beneath the surface to turn turbines to generate electricity.

Air Resources Board Public Hearing on Amendments to the Regulation for Mandatory Reporting of Greenhouse Gas Emissions (December 16)

The Air Resources Board will conduct a public hearing to consider the Amendments to the Regulation for Mandatory Reporting of Greenhouse Gas Emissions.

This notice, the ISOR and all subsequent regulatory documents, including the FSOR, when completed, are available on ARB's website for this rulemaking at: <http://www.arb.ca.gov/regact/2010/ghg2010/ghg2010.htm>

Inquiries concerning the substance of the proposed regulation may be directed to the designated agency contact persons, Mr. Doug Thompson, Manager of ARB Climate Change Reporting Section, Planning and Technical Support Division at (916) 322-7062, or Mr. Patrick Gaffney, Staff Air Pollution Specialist, at (916) 322-7303.

SUBMITTAL OF COMMENTS Interested members of the public may also present comments orally or in writing at the meeting, and comments may be submitted by postal mail or by electronic submittal before the meeting. The public comment period for this regulatory action will begin on November 1, 2010. To be considered by the Board, written comments, not physically submitted at the meeting, must be submitted on or after November 1, 2010 and received no later than 12:00 noon on December 15, 2010, and must be addressed to the following: Postal mail: Clerk of the Board, Air Resources Board 1001 I Street, Sacramento, California 95814 Electronic submittal: <http://www.arb.ca.gov/lispub/comm/bclist.php>

Employment

New This Week

NREL Seeking Applicants for Geothermal Analysis Group

We're looking for applicants with geothermal or related technical backgrounds that have strong analytical skills and good writing/communication skills. If you have any graduate students, post-docs, former undergrads with some experience, or other contacts that are looking for employment and would be good fits for any of these positions, please forward them the information. They can also apply for the positions online at http://www.nrel.gov/employment/job_openings.html. You may also contact :

Chad Augustine
Geothermal Energy Engineer/Analyst
National Renewable Energy Laboratory
1617 Cole Blvd. MS302
Golden, CO 80401
Office: (303) 384-7382



Bochum University of Applied Sciences, Germany (November 30)

- 1) IGA Executive Director (www.geothermal-energy.org/files-285.html)
 - 2) International Coordinator of the German Geothermal Activities (www.geothermal-energy.org/files-286.html)
- Applications should be submitted by 30.11.2010.

Employment Opportunities

For more details on employment opportunities listed here visit http://geo-energy.org/empl_opport.aspx.

Geothermal Field Technician, Nevada Geothermal Power

The 'Geothermal Well field Technician/Coordinator' is a US based job with the successful candidate required to be living in Reno or Winnemucca. He/she will assist the NGP Field Operations Manager with the efficient execution of well field activities including drilling location construction, inventory management, well testing and downhole logging. They will coordinate and supervise on site subcontractors, maintenance and monitoring activities to ensure company drilling objectives and safety standards are met.

- Production/injection well drilling duties but not limited to: a) location construction, b) inventory management, c) well testing and d) well logging
- Maintenance of NGP owned ancillary equipment and related material inventory
- Geothermal well (production and injection) inspection, maintenance and monitoring activities
- Operates in a safe in efficient manner
- Assistance with routine line shaft pump maintenance and change outs
- Data acquisition and monitoring as necessary
- Coordinate / supervise subcontractors including but not limited to: a) well service crews, b) well loggers c) welders e) truck and crane crews f) water haulers etc.
- Act as a role model for other well field personnel

Requirements:

- Demonstrated ability to work both independently and as part of a diverse team
- Familiar with geothermal well drilling or Oil and Gas operations and maintenance is preferred but not required.
- Experience with computers and Microsoft office.
- Experience with handheld GPS systems
- Ability to meet deadlines without compromising accuracy and completeness of work
- Experienced in the operation and general maintenance of medium to large equipment (i.e. crane, forklift, diesel generators, large volume water pumping equipment etc.)
- Current Drivers License
- US Passport
- Forklift certification (highly recommended)
- Ability to travel domestically and internationally for extended periods of time
- Ability to lift up to 75 lbs and stand /walk for up to 80% of the day
- Ability to work outdoors in remote environments

The Company offers excellent health benefits, competitive remuneration, and opportunities for career advancement in an exciting field of endeavor. No phone calls please. Only qualified candidates will be contacted for an interview.

Email resumes to: careers@nevadageothermal.com Fax resumes to: 604-688-5926

Geothermal Faculty, Tenure Track, Dedman College, SMU (October 1 or until filled)

Contact: Professor Brian Stump, Search Committee Chair, Department of Earth Sciences, Southern Methodist University, PO Box 0395, Dallas TX 75275 or to sschwob@smu.edu. A PhD is required at the time of appointment. The start date is August 1, 2011.

Senior Level Assistant Site Manager, Operations and Maintenance

Contact: Richard@mrspokane.com or call 509-340-2852 Ext. 18

Senior Principal Geothermal Geologist – Brisbane, Australia

Shane Stevens / Talent Search Team Manager, Origin

Email: Shane.stevens@originenergy.com.au Phone: +61 00 11 73858 0237

GIS Specialist, Nevada Geothermal Power, Reno, NV

Please send resumes to careers@nevadageothermal.com

Vice President Geology, Western US

Please send resumes to Bstevens@stmassociates.com

Geothermal Openings, NREL, Boulder, CO

Go to http://www.nrel.gov/employment/job_openings.html and search “geothermal”

Drilling Manager, NV

Contact: Andrew Matkovic / Vice President Clean Tech & Energy
(216) 539-7668 or andrewmatkovic@carmongroup.com

Geophysicist, Calpine, The Geysers, CA

To apply online, see

https://www.hrapply.com/calpine/AppJobView.jsp?link=3645&page=AppJobList.jsp&skimSessionName=com.hrlgix.view.cont.app.JobListTable&skimName=requisition.requisition_id&skimNdx=4&op=reset.

Renewable Energy Mechanical/Systems Engineer, Idaho International Laboratory, ID

Please contact:

Vanessa Van Dyk at Idaho National Laboratory: Vanessa.VanDyk@inl.gov, 208-526-6325

OR apply on line at: www.inl.gov/careers

Project Manager

Contact: Andrew Matkovic, Vice President, The Carmon Group Inc.
andrewmatkovic@carmongroup.com or (216) 539-7668

(updated 8/20/10)

Development Manager

Contact: Andrew Matkovic, Vice President, The Carmon Group Inc.
andrewmatkovic@carmongroup.com or (216) 539-7668

(updated 8/20/10)

Project Manager Geothermal Exploration, Europe

Contact: drobot@penderfinancial.com

Requests for Proposals**New This Week****Coordination of the Colorado Geothermal Working Group**

The Governor's Energy Office (GEO) seeks quotes from independent contractors providing professional consulting services to assist the GEO in the coordination of the Colorado geothermal working group. Activities include: event and meeting logistic support (drafting and sending invitations, finding meeting space, contract catering services when appropriate, etc.), develop and distribute background and support material, and others.



Solicitations can be found at <https://www.gssa.state.co.us/BdSols.nsf/OByAgency?OpenView> under "Governor's Energy Office."

Update to Funding Opportunity Announcement DEFOA0000336 (December 7)

On Wednesday, November 10, DOE issued a modification to Funding Opportunity Announcement (FOA) DE-FOA-0000336, titled "Energy Production with Innovative Methods of Heat Recovery." This modification extended the due date for full applications. The modification also clarifies the objectives of this FOA and should be reviewed closely by pre-applicants considering submittal of a full application. The modified FOA may be found at www.fedconnect.net or www.grants.gov.

Proposal Announcements

Alaska Fairbanks North Star Borough Offers \$1m Matched-Funds Grant

Alaska's Fairbanks North Star Borough is putting out a \$1 million grant through the Department of Energy for geothermal energy exploration for the proposal venture that can provide matching funds. Former Mayor Jim Whitaker initiated the request based on positive results of deep well testing 50 years ago. Luke Hopkins, Mayor of Fairbanks North Star Borough said researchers at the University of Alaska Fairbanks have shown interest. The goal is to find out whether the university's existing power plant could be replaced with a geothermal power plant.

See <http://www.azocleantech.com/details.asp?newsID=12786>

Fairbanks North Star Borough <http://www.co.fairbanks.ak.us/>

PDF: <http://co.fairbanks.ak.us/Meetings/Ordinances/2010/2010-20-1o.pdf>

USTDA-Sponsored Indonesia Geothermal Power Training Program Is Offering Business Development Opportunities for U.S. Companies

January 10 – February 11, 2011

www.indonesiageothermal.govtools.us

The United States Trade and Development Agency (USTDA) is sponsoring an in-country Indonesia Geothermal Power Development Training Program from January 10 to February 11, 2011, followed by a Reverse Trade Mission of Indonesian delegates to the U.S. in March 2011. The Indonesian government is seeking to expand its current geothermal power generation capacity of 1,100 MW to 9,500 MW by 2025 and has vested all responsibilities for geothermal resource development with the provincial authorities and local tendering committees. The USTDA-sponsored program is aiming to train these decision-makers in geothermal resource development and transparent tendering processes, while promoting U.S. geothermal business interests in Indonesia.

The Training Program will be delivered by U.S. technical experts at six different locations in Indonesia, identified with the greatest potential for business development. USTDA is offering a unique opportunity for U.S. companies to visit these training sessions and present on their company's products / services and successful projects – to an exclusive audience of decision-makers.

Also, an Opening Event with welcome reception and dinner is scheduled in Jakarta on Friday, January 14, 2011, where U.S. companies will have an opportunity to meet and network with the central and local Indonesian authorities from across various provinces, registered for the Training Program.

This is a chance to build a relationship and highlight your company to the local authorities! For more information on participation and/or sponsorships, please contact Andrew Graves at agraves@bcs-hq.com or 410.997.7778 ext. 234.

Note: Participation at and/or sponsorship of all USTDA events is limited to U.S. Firms, U.S. individuals or U.S. companies, each as defined under (www.ustda.gov).

Partner Sought for Hot Oil and Gas Wells, Mississippi

Rich McAdoo (rlmcadoo@continentalenergy.com) is seeking local operators or parties with access to properties with hot oil or gas wells (shut-in or production) located in Mississippi. If you are looking for a financial and technical partner to develop coproduction of geothermal fluids with oil and gas in Mississippi, send him an email.

Call for Geothermal Exploration Proposals, Neuquén, Argentina

The Government of the province of Neuquén, Argentina has issued a call for geothermal exploration proposals in the Domuyo area, located 560 km from the capital city of the Province of Neuquén. The exploration contract allows exploitation of the minerals discovered for a period of up to 25 years. The successful bidder may request to receive the promotional benefits and incentives. The documentation containing the terms and conditions is on sale, and a non-commercial copy is available on the agency's web site. To request additional information, please contact the Agency: info@adinqn.gov.ar or the Vice Presidency of ADI-Nqn: Igalardi@adinqn.gov.ar; Phone: +54 299 4494749; Mobile: +54 9 299 5552842 - www.adinqn.gov.ar

A 7thspace.com article provides more background on the area: see

http://7thspace.com/headlines/355477/geothermal_energy_national_and_international_public_call_for_domuyo_project_neuquen_province.html.

Power Forecast, Haiti, TDA

The U.S. Trade and Development Agency announces its intent to request proposals to provide technical assistance to forecast future power demand in Haiti and assist governmental and private sector entities in Haiti in developing a strategy to generate, transmit and distribute power to both urban and rural areas, to encourage Haiti's recovery from the disastrous earthquake and to fuel economic growth. The assistance will include the identification, assessment and quantification of renewable energy options such as wind, solar and biomass. \$800K expected to be available. For more info, contact Jason Bell at jbelle@ustda.gov or go to: https://www.fbo.gov/?s=opportunity&mode=form&id=381bf13f574e4baee474468a6f994556&tab=core&_cview=0. Refer to Sol# CO2010510006. (FBO 6/5/10)

Manufacturing and Construction Machines and Equipment

The National Science Foundation requests proposals for Manufacturing and Construction Machines and Equipment. This program supports fundamental research leading to improved machines and applications for both manufacturing and construction. Key goals are to advance the transition of these industries from skill-based to knowledge-based activities and to develop them as activities with minimal environmental and societal impact. Research projects addressing renewable energy have been awarded in 2010. \$300K expected to be available. For more info, contact George Hazelrigg at ghazelri@nsf.gov or go to: http://www.nsf.gov/funding/pgm_summ.jsp?pims_id=13346. Refer to Sol# PD-10-1468. (Grants.gov 8/20/10)

Climate Change and Health, HHS

The U.S. Department of Health & Human Services requests proposals for Climate Change and Health: Assessing and Modeling Population Vulnerability to Climate Change. This RFP encourages research of risk factors of populations that lead to or are associated with increased vulnerability to exposures, diseases, and other adverse health outcomes related to climate change. For more info, including funding and program contacts, go to: <http://grants.nih.gov/grants/guide/pa-files/PAR-10-235.html>. Refer to Sol# PAR-10-235. (Grants.gov 7/21/10)

Energy Production with Innovative Methods of Geothermal Heat Recovery, DOE (December 7)

On Wednesday, November 10, DOE issued a modification to Funding Opportunity Announcement (FOA) DE-FOA-0000336, titled "Energy Production with Innovative Methods of Heat Recovery." This modification extended the due date for full applications. The modification also clarifies the objectives of this FOA and should be reviewed closely by pre-applicants considering submittal of a full application. The modified FOA may be found at www.fedconnect.net or www.grants.gov.

Funding Opportunity Announcement Number: DE-FOA-0000336
Announcement Type: Initial

CFDA Number: 81.087
Issue Date: 08/19/2010
Pre-Application Due Date: 10/01/2010, 11:59 P.M. Eastern Time
Full Application Due Date: 11/30/2010, 11:59 P.M. Eastern Time

REGISTRATION AND APPLICATION SUBMISSION REQUIREMENTS

Registration Requirements: Allow at least 21 days to complete registrations.

To submit an application under this announcement, complete the following registrations:

1. Obtain a Dun and Bradstreet Data Universal Numbering System (DUNS) number, at <http://fedgov.dnb.com/webform>.
2. Register in the Central Contractor Registration (CCR) system, at <https://www.ccr.gov/>. Designating an E-Business Point of Contact (EBiz POC) and obtaining a special password called an MPIN are important steps in CCR registration. These items are needed to submit applications in Grants.gov. Update your CCR registration annually.
3. Register in Grants.gov at <http://www.grants.gov/>. See the Organization Registration User Guide at <http://www.grants.gov/assets/OrgRegUserGuide.pdf>. The Applicant User Guide is at <http://www07.grants.gov/assets/ApplicantUserGuide.pdf>.
4. Register in FedConnect at <https://www.fedconnect.net/>; use "Register as a Vendor" link. To create an organization account, your organization's CCR MPIN is required.

Where to Download the Application Package:

Download the Application Package for this announcement at <http://www.grants.gov/>. Click on the "Apply for Grants" link; then, click on the "Download a Grant Application Package" link and follow the instructions. Insert the announcement number to download the Application Package.

Where to Submit the Application Package:

Applications must be submitted through [Grants.gov](http://www.grants.gov/) to be considered for award. Follow instructions in the User's Guide for application submissions. Applicants are responsible for verifying successful transmission, prior to the Application due date and time.

Where to Ask Questions About the Funding Opportunity Announcement Content:

To ask questions about the Funding Opportunity Announcement, use FedConnect at <https://www.fedconnect.net/>. You must be a registered user in the system and submit questions by sending messages in your FedConnect email box. Part VII of this announcement explains how to submit questions to the Department of Energy (DOE).

Where to Submit Questions About the Registrations or Systems:

DUNS & Bradstreet: govt@dnb.com

Central Contractor Registration (CCR) system: <https://www.bpn.gov/ccr/contactccr.aspx>, By phone: 866-606-8220 or 334-206-7828 (8:00 A.M. to 8:00 P.M., Eastern Time)

Grants.gov: support@grants.gov, By phone: 1-800-518-4726 (7:00 A.M. to 9:00 P.M., Eastern Time)

FedConnect: support@FedConnect.net, By phone: 1-800-899-6665 (8:00 A.M. to 8:00 P.M., Eastern Time)

Renewable Energy Proposals, NV Energy (December 15)

Press Release, LAS VEGAS, November 4 — NV Energy (NYSE: NVE) is requesting bids for short-term renewable energy resources that can be delivered on or after Jan. 1, 2011, and for a period of one month up to three years. Bids are due Dec. 15, 2010.

NV Energy is open to three different types of short-term renewable energy offerings:

- * Renewable energy bundled with all of its respective portfolio energy credits;
- * An exchange of non-renewable energy from NV Energy for renewable energy; and

* Biogas that can be transported to NV Energy's power plants for electricity production.

NV Energy will accept offers of renewable energy structured as monthly shaping and firming transactions, which will allow renewable suppliers greater flexibility in their respective bid proposals.

Parties interested in submitting a response to the RFP can find more information at www.NVEnergy.com/shortRFP

This is the third renewable resource solicitation released by NV Energy in 2010, as the company continues its efforts to secure a renewable portfolio standard of 20 percent by 2015 and 25 percent by 2025. Currently, NV Energy customers benefit from 44 separate geothermal, solar, biomass, small hydro, wind, and waste-heat recovery projects that are either in commercial operation or the project-development stage. The company's current renewable energy portfolio includes more than 1,200 megawatts.

Industry/University Cooperative Research Centers (February 2, 2011)

The National Science Foundation requests proposals for Fundamental Research Program for Industry/University Cooperative Research Centers. This program provides support to centers to conduct fundamental research to better position themselves as leaders in emerging areas that could benefit the industries that they serve. Areas of interest include, but are not limited to: Energy and the Environment; and Advanced Manufacturing. \$1.6 million expected to be available, up to 10 awards anticipated. Responses due 2/2/11. For more info, contact Rathindra DasGupta at rdasgupt@nsf.gov or go to: <http://www.nsf.gov/pubs/2010/nsf10601/nsf10601.htm>. Refer to Sol# 10-601. (Grants.gov 8/17/10)

Events

New This Week



BLM Announces Geothermal Lease Sale March 22, 2011

Next Lease Sale date: March 22, 2011

Geothermal Heat Pump Training (Various Dates)

Accredited Geothermal Installer Certification

Offered in partnership with the International Ground Source Heat Pump Association (IGSHPA). Those who pass the open book exam become IGSHPA Accredited Geothermal Installers. Course also includes a hands-on pipe fusion training and certificate.

For dates see: https://www.heatspring.com/?id=geothermal_training

Other courses include:

Entry Level Geothermal Certificate Training

Fundamentals of Geothermal Systems

Geothermal Designer Boot Camp

Geothermal Short Courses - learning experiences for people curious about geothermal systems.

Geothermal Heat Pumps

Understanding Heat Pump Mechanics

Climate Change & Geothermal Heat Pumps

For more details see HeatSpring Learning Institute website: https://www.heatspring.com/?id=geothermal_training

Air Force Renewable Energy Industry Day, Irving TX (December 8)

The US Air Force would like to invite interested geothermal companies to participate in a renewable energy day on December 8th at the Wyndham Resort in Irving Texas. If you are interested, please contact Ken Gray at ken.gray@tyndall.af.mil.

Objective: To provide industry with knowledge of Air Force requirements, procedures, contacts and tools to achieve increased energy security with increased renewable energy; to learn from industry representatives their objectives and barriers they face in helping the Air Force meet its objectives.

GEA Events

GEA Calendar of Events for 2011

February 9, 2011 — GEA Geothermal Energy Finance Forum, New York, NY

March 7-10, 2011 — Renewable Energy World North America Conference and Expo, Tampa, FL

May 4-5, 2011 — GEA Geothermal New Technologies and Applications Showcase and Forum and Member's Meeting, Washington, DC

July 20, 2011 — GEA Geothermal Energy Finance Forum, San Francisco, CA

October 23-26, 2011 — GEA Geothermal Energy Expo® and GRC Annual Meeting 2011, San Diego, CA

Look for more information on these upcoming events at <http://geo-energy.org/events.aspx>.

For sponsorship and speaking opportunities, or if you have other questions, contact Kathy Kent at Kathy@geo-energy.org.

Why Should You Attend GEA Events?

As the national trade association for the geothermal industry, the Geothermal Energy Association (GEA) strives to create and deliver educational events involving the full range of the geothermal industry, reflecting the dynamic growth of the geothermal market, and communicating the benefits of geothermal energy to all. GEA events offer important opportunities to learn and network within the geothermal community, and to inform and educate companies and organizations outside today's industry that are interested in learning more about geothermal energy. The revenue generated from GEA events is used to advance the goal of the GEA, "to expand the production and use of geothermal energy in the United States and around the world." The revenue supports GEA's workshops and events, communications activities, outreach efforts, policy related activities and analysis, internet publications, and other initiatives designed to help achieve this goal. ONLY GEA puts your dollars to work in all of these ways to advance the future of the geothermal energy industry. And, GEA does not sell your email or postal address to junk mailers or spammers.

To keep track of new events and changes to this calendar go to: www.geo-energy.org.

Other Events

Geothermal Investment Forum and Networking Event, CanGEA, Calgary, AB (December 2)

Geothermal Investment Forum and Networking Event (December 2nd, 2010 – Calgary, AB), Calgary Geothermal Power Investment Workshop and Networking Reception. CanGEA is proud to host, geothermal developers, investors, energy companies and policy makers, to explore advances and opportunities in the industry. See <http://www.cangea.ca/events/>.

GeoPower Europe, European Geothermal Energy Council, Paris, France (December 8–9)

For the current agenda and to register, visit

<http://www2.greenpowerconferences.co.uk/EF/?sSubSystem=Prospectus&sEventCode=GE1012FR&sSessionID=8ae2803966ed82ae2265bfed68f83b92-1060598>.

POWER-Gen International, Orlando, FL (December 14–16)

<http://www.power-gen.com/index.html>

Renewable Energy World North America 2011, Tampa, FL (March 8–10, 2011)

<http://www.renewableenergyworld-events.com/index.html>

Geothermal Energy Utilization Associated with Oil and Gas Development, SMU Geothermal Laboratory, Dallas, TX (June 13–15, 2011)

<http://smu.edu/geothermal/>

GEOHERMAL ENERGY WEEKLY

A newsletter for the geothermal industry written by Leslie Blodgett and Karl Gawell

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